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BC Manager User´s Guide

File	Version	Date	Author	Access
BCManagerUG_eng_v40.odt	*4.0*	*dic-09- 2013*	*CSP*	*Public*

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Revision History

Versio	Date	by	Descripción
1.0	*mar- 29- 2013*	*CSP*	*01/03/00*
3.0	*Ago-27-2013*	*CSP*	
4.0	*Dic-9-2013*	*CSP*	

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1. Introduction

BC Manager is an on-line tool that allows the generation and management of internet television channels from live streaming and also from video files, as well as the construction of an automatic web TV site. BC Manager also provides the option of restricting access to the contents that designates the broadcaster, and generating virtual tickets to end users that wish to access to such content.

This manual describes the various options of this tool, as well as the more usual operational. Depending on the profile contracted by the client, not all of the features described may be available.

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2. Definitions

bc-cast: Cloud TV Service that includes hosting and construction of virtual TV online stations as well as internet broadcasting and content protection.

bc-web: Web TV site automatically generated from the **BC Manager** tool. It is included in the **bc-cast** bundled services.

Virtual Broadcaster: Owner and manager of TV content, live or from files, to be broadcasted through the internet, by means of a virtual TV station. This is the customer of our cloud TV services.

Viewer: End users who watch TV contents from Web TV site. They are the virtual broadcaster's customers.

Frame or Channel: This is the display element shown in a web TV site to the viewers in order to access to a specific content. The broadcaster generates and manages each channel with the corresponding attributes (content type, video file or live, restricted access, etc.). It can be offered through **bc-web**, or on an independent way, by means of an **iframe** instance that can be integrated on any other web site.

Product: In the case of content with restricted access rights, they can be structured in products, defining periods that enable the viewing of certain channels. For example a diffuser with the restricted channels A, B and C could generate a product with both A and B channels, with rights for the period January to March and another product with channels A, B and C for the period January - June.

Ticket: Key that is sent to a viewer, assigned to a product, allowing access the content defined and during the period specified in the product. The tickets are for the exclusive use and cannot be shared playing on simultaneous devices.

3. BC Manager Administration

BC Manager has three administration levels:

Super User: Full privileges of the tool. It is reserved for internal use by support bc-cast staff.

Broadcaster Administrator: With configurable privileges, depending on the product purchased, for the generation of frames, products and tickets.

Frame Administrator: It does not have access to the BC Manager tool and it can only manage the content of the channel through the local **Frame Manager** tool.

Each frame has a micro-web site, similar to **BC Manager**, allowing an independent configuration. In this way, and in certain applications, the diffuser will be able to delegate frames management to local administrators. Therefore the management tool's access schemes are the following:

BC Manager: It is accessible from the **Super User** and the **Broadcaster Administrator**.

Frame Manager: It is accessible from the **Super User**,the **Broadcaster Administrator** and the **local Frame Administrator**.

The access to **BC Manager** is in the following URL:

http://<MSIP>/<bcid>/admin

MSIP (Media Server IP) and **bcid** (Broadcaster ID) are the basic broadcaster identifiers in **bc-cast** service.

In a similar way the access to the **Frame Manger** is developed by means of the following URL:

http://<MSIP>/<frame>/admin

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4. The Automatic Web TV site: bc-web

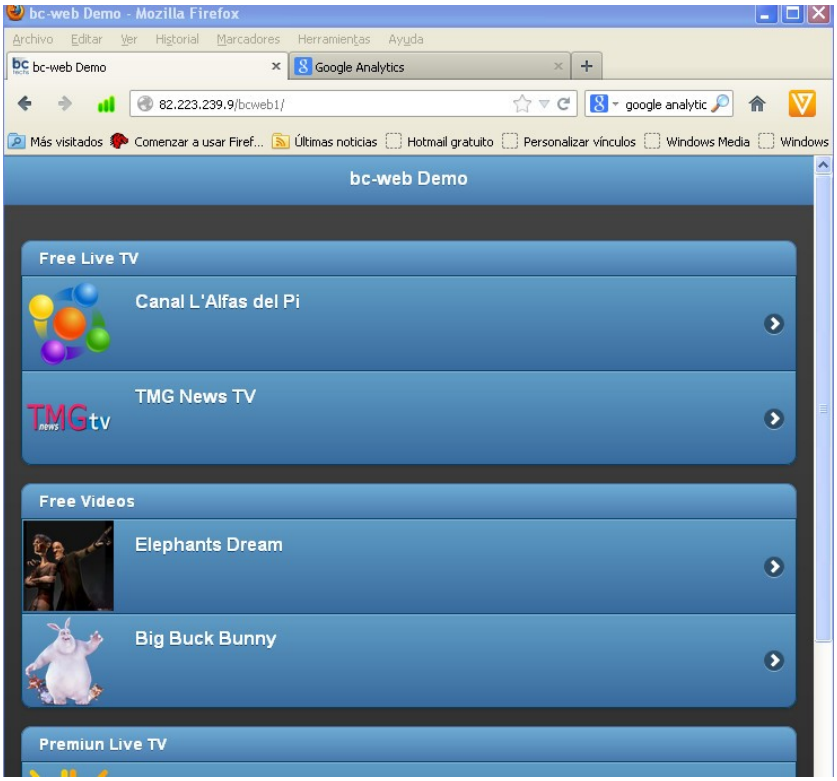

figure 1: bc-web site example

The web TV reference site (**bc-web**) is automatically generated from the **BC Manager** tool and located at the following URL:

http://<MSIP>/<bcid>

For Amino IP STBs the access URL is as follows:

http://<MSIP>/<bcid>/stb

MSIP (Media Server IP) and **bcid** (Broadcaster ID) are the basic broadcaster identifiers in **bc-cast** service.

Depending on the configuration of the channels made from BC Manager, all channels are categorized on this website in the following categories:

Free Live: Live contents with no restricted access.

Free Videos: Videos on demand with no restricted access.

Premium Live TV: Live contents with restricted access.

Premium Videos: Videos on demand with restricted access.

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5. BC Manager Structure

BC Manager is structured on the following configuration sections:

Name: Broadcaster name and logo. It will be showed in the header on the top page of the **bc-web** site.

Frames: Channels generation and management.

Products: Product generation and management.

Tickets: Users Management and tickets generation and distribution.

Pasword: It allows changing the **Broadcaster Administrator** password. **IMPORTANT: For security reasons, when this key is updated, it disables also all Frame Administrator passwords, and therefore they must also be generated again.**

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5.1. Name Section

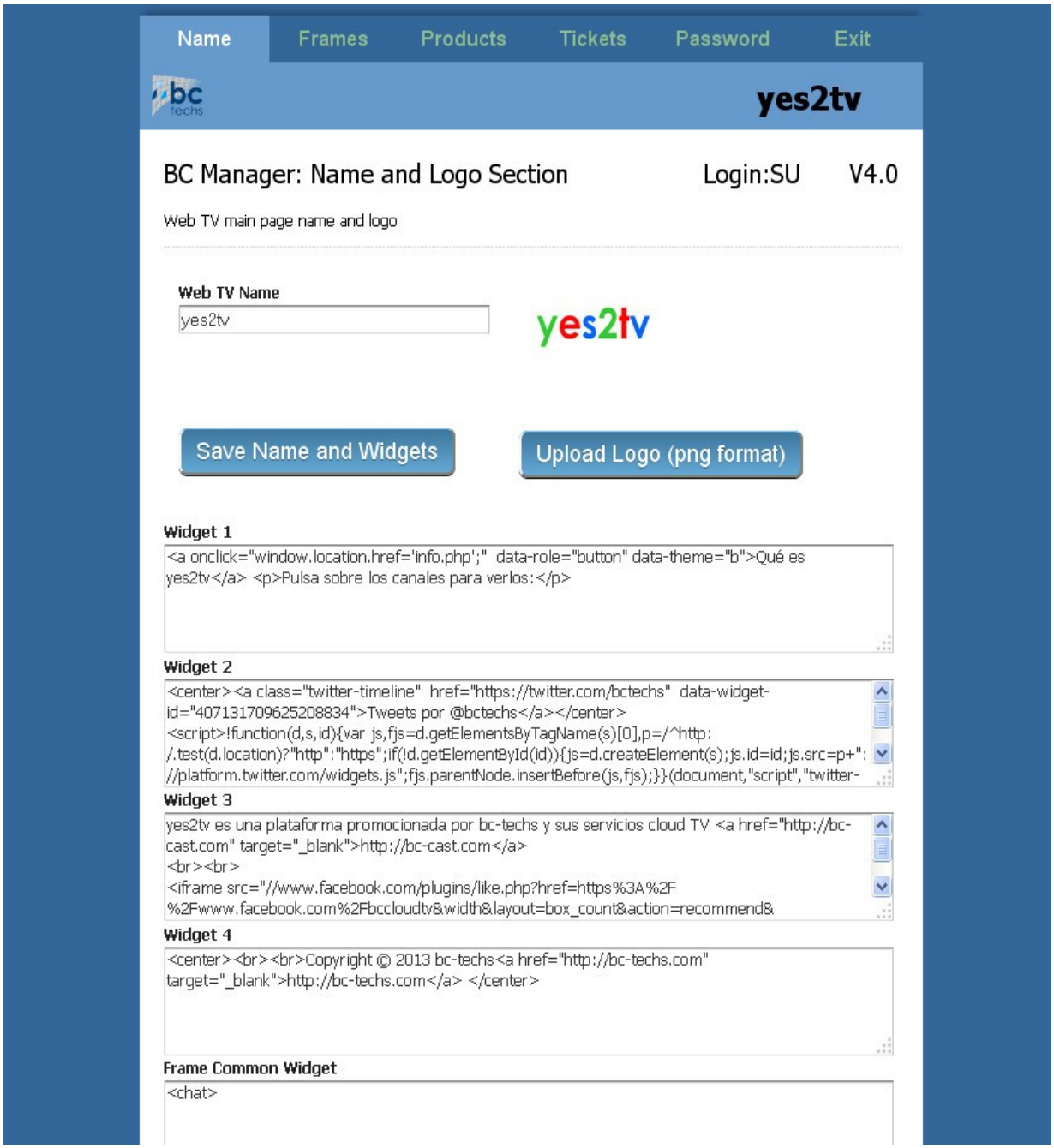

figure 2: Name Section

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This section configures the name that appears in the header of the **bc-web** site and stores the picture of the logo, in PNG format, which will appear when you assign this site as a shortcut on the main page of **Android** and **IOS** (iPhone,iPad) devices in a similar way to an **App**.

In order to add extra functionality and information in **bc-web** Top page, it is possible to add 4 different **widgets areas.**

The frame common widget that is included in all channel pages, is also defined in this section. In this field is also possible to assign a bc-chat room by means of reserve **<chat>** command. For more information consult **Appendix 3**

5.2. Frame Section

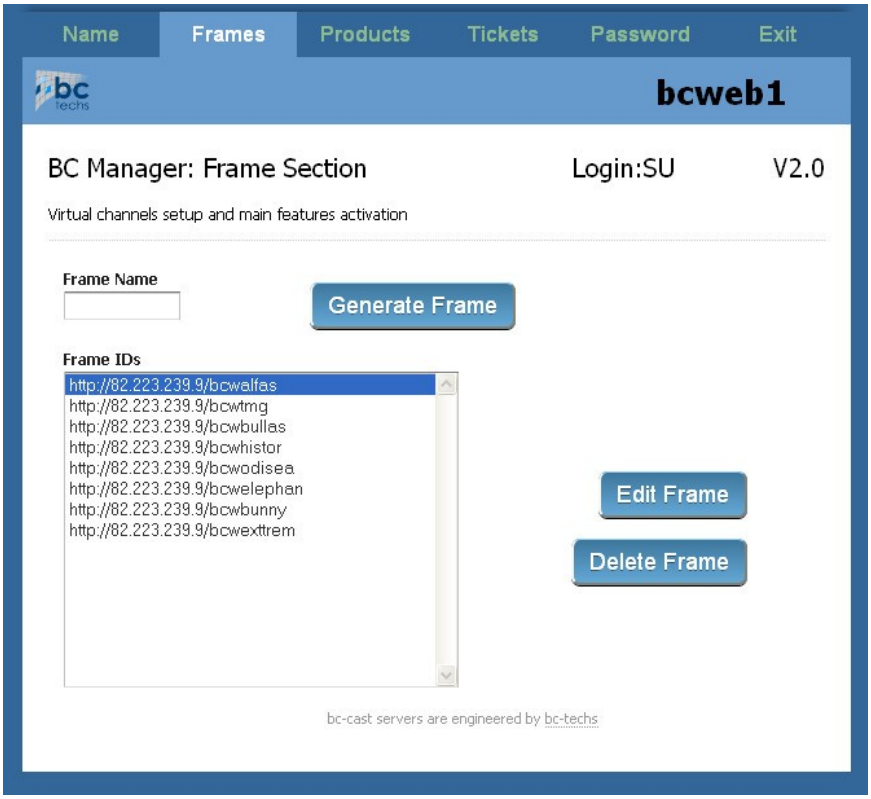

figure 3: Frame Section. List channels and generation

This section generates, edits and deletes the TV channels. Those TV frames are identified by the **Frame ID** that defines also their URL access. The edition step is developed by means of a connection to the local tool **Frame Manager**.

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figure 4: Frame Manager main page

Frame Manager has the following operative options:

Name: This name will be showed in **bc-web's** selection channel list.

Default Width, Height: **Frame** default dimensions to be used in **iframe** instances.

Restricted Access: This option must be marked when t is necessary to protect the content and generate conditional access **tickets**.

Live: Frame content is live.

AutoPlay: If you do not want to display a play figure (poster) you must activate this option.

Disable: If this option is activated the channel will not be showed in **bc-web** site.

Content: Depending on the live flag explained previously you have the following options:

1- **Live flag not marked:** It allows you to upload video files (with "live" not marked).

2- **Live flag marked:** It shows the URL to enter in the **RTMP encoder**. That URL has 4 different formats depending on the type of encoder. See more information in **Appendix 2**

In order to integrate the channel on an external web site this section shows also the HTML **iframe** format for default size.

Example:

<iframe width=600 height=400 src="http://82.223.239.9/bcwtmg" scrolling="no" frameborder=0>

For a different size it is necessary to include the parameters "w" and "h" in the src field too:

<iframe width=300 height=200 src="http://82.223.239.9/bcwtmg?w=300&h=200" scrolling="no" frameborder=0>

The xml configuration File for Flash Media Live Encoder (FMLE) and the .bat script for Windows bc-cast encoder tool (FFMPEG based) can be downloaded in this section by means of "**Download FMLE Conf File**" and "**Download FFMPEG script**".

Password: Allows you to configure and change the key to access the **Frame Manager.**

Upload Logo: This figure will appear in **bc-web's** selection channel list

Upload Poster: Figure to show if AutoPlay option is enabled.

Monitor: Channel monitoring.

Frame Widget: In this field it is possible to define a local widget code in order to add extra functionality to the main frame page

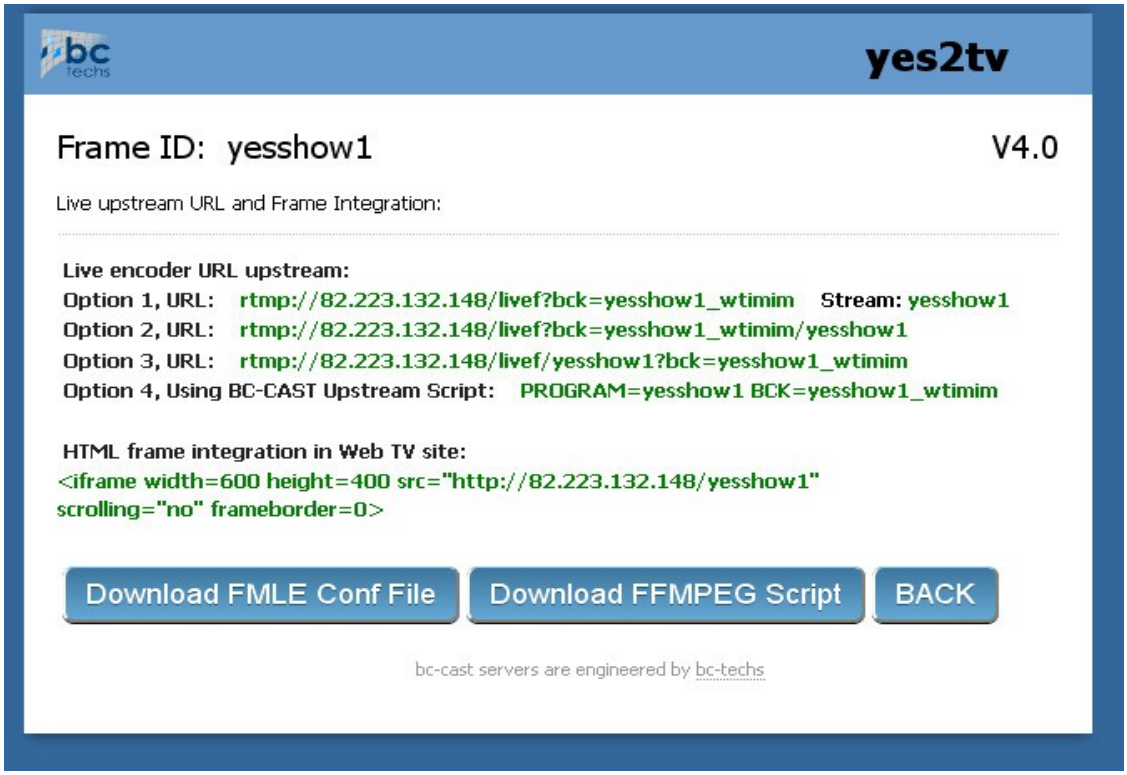

figure 5 Frame Manager. Content section with live flag enabled.

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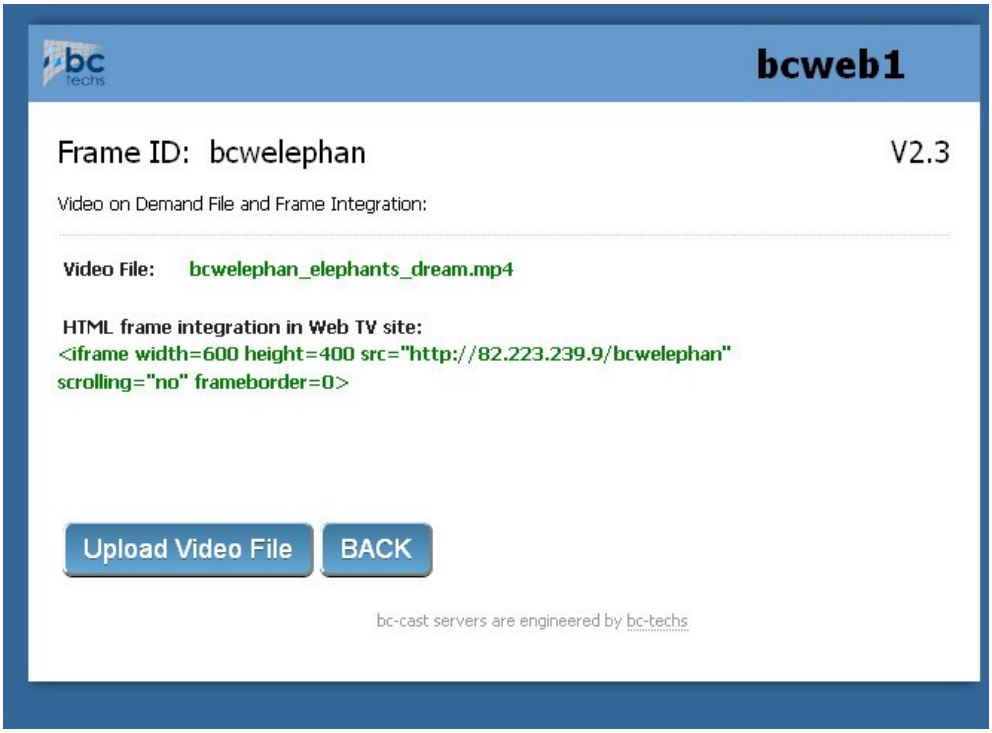

figure 6: Frame Manager. Content section with live flag disabled.

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5.3. Product Section

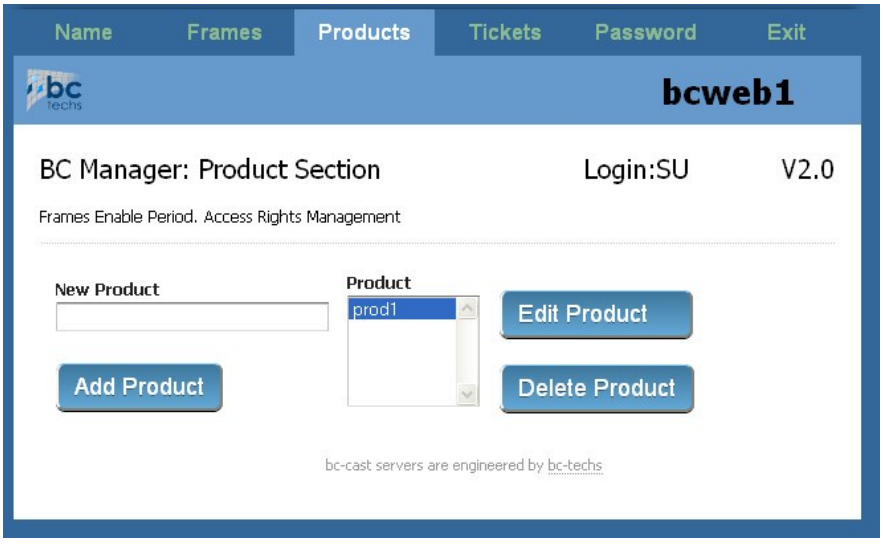

figure 7: Product Section. List products and generation

This section generates and edits the products that contain the viewing rights of the restricted access channels. The construction of the product is very simple (Edit button) and it is performed as follows:

1- Select a restricted access frame to be added in the product.

2- Definition of allowed viewing period with start and end date. **IMPORTANT: The time format is always UTC.**

3- Add the right to display the frame by clicking on "Add Period for Selected Frame"

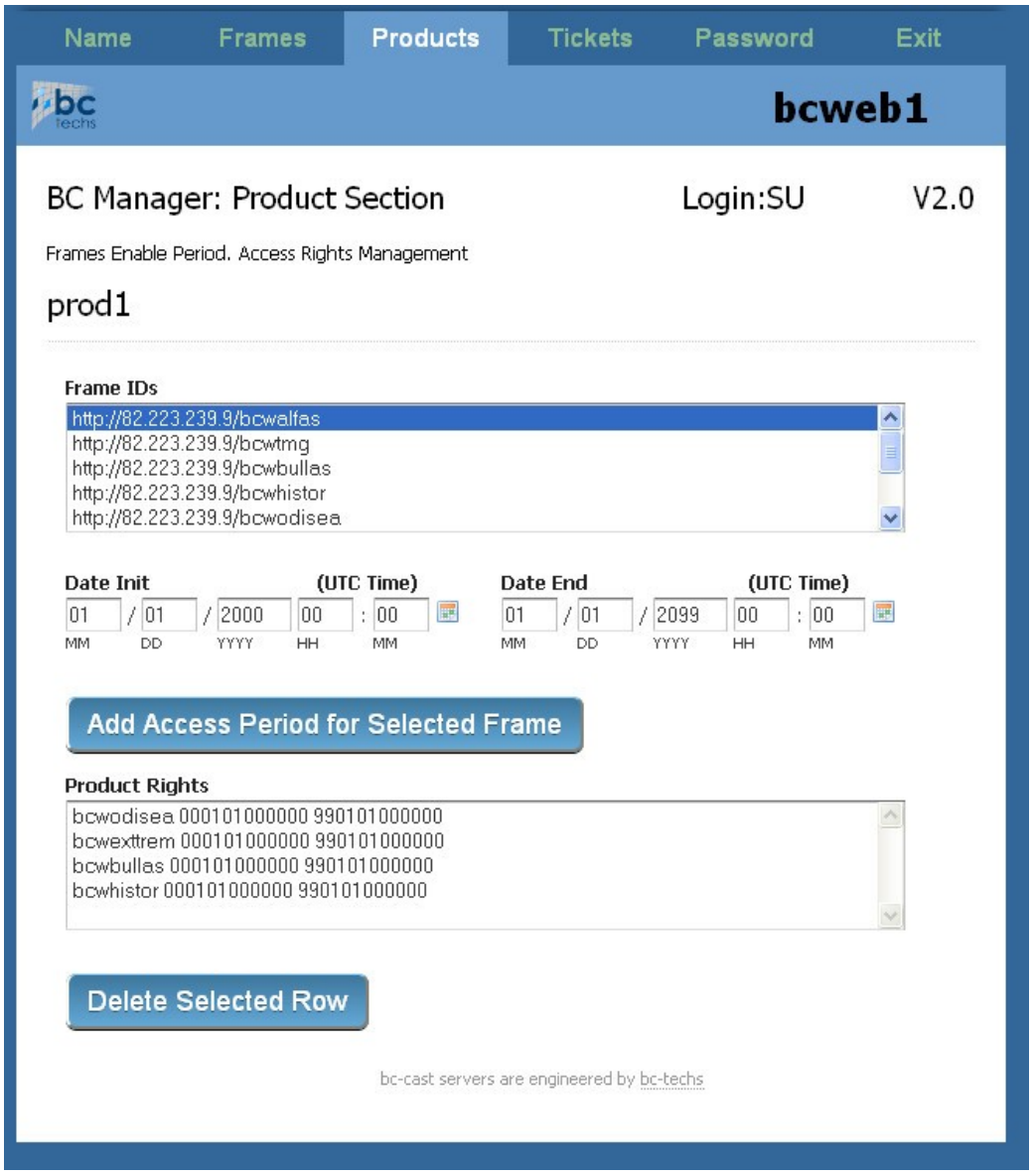

figure 8: Product edit window

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5.4. Tickets Section

The generation of the tickets is developed in this section, linking also products and users. Tickets always need to be assigned to a product and, for that reason, and in order to add new ones, it is necessary to select previously a product and group using "Set Filter".

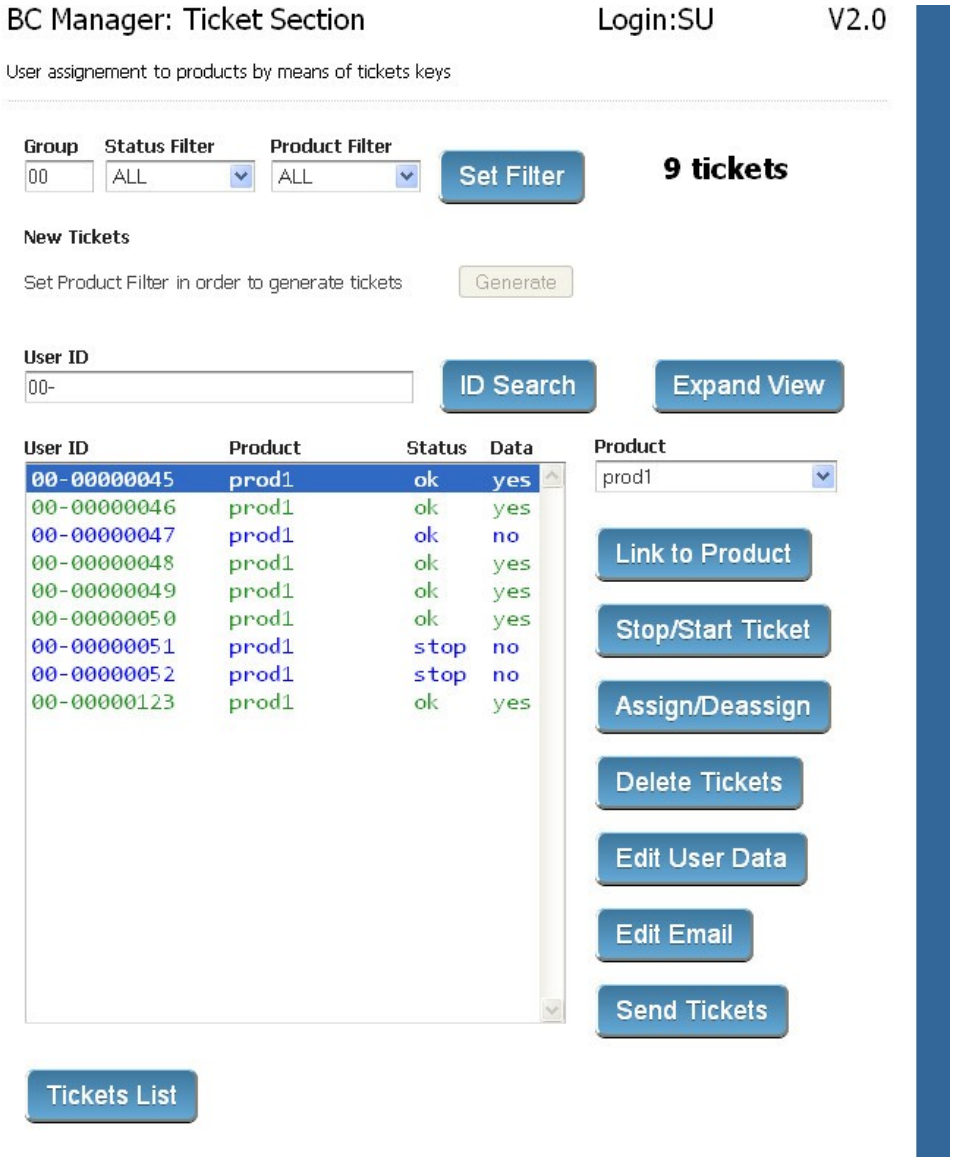

figure 9: Tickets section

The operations on the ticket list can be done individually or by groups, using the CTRL keys (incremental selection) or SHIFT (group selection) at the same time you are clicking the mouse.

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On the tickets generated and, subsequently, selected, it is possible to perform the following operations:

Link to Product: Change the selected tickets to the product selected in Product list

Stop/Start Ticket: This option enables or disables the selected tickets.

Assign/De-assign: This auxiliary status flag can be used when a ticket is assigned to a user. This flag is only for informative purpose and it does not have any operative function.

Delete Tickets: Delete selected tickets.

Edit User Data: This option allows you to enter the user e-mail address and other data. In this form is also included the ID receiver (STB ID) when **Amino IP STBs** are used. After updating **the ticket is automatically activated as Started and Assigned.**

figure 10: Tickets Section. User data

Edit email: With this option it is possible to edit and select the message to be sent automatically to the viewers, containing both the ticket as additional useful information. It is possible to generate, edit, and select up to 4 templates of different messages. The first two templates (MAIL 1 and MAIL2) are pre-defined with a general example of message in English and Spanish. Templates are based on the following basic parameters:

%ticket%: Ticket

%bcname%: bc-web site name defined in Name Section.

%userid%: User ID

%product%: Product assigned to the ticket

%server%: bc-cast server IP address

%bcid%: Broadcaster ID (bcid)

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Send Tickets: By clicking on this option it will automatically send the selected tickets assigned to their users.

Tickets Lists: This option allows you to download a file with the list of tickets that have been filtered.

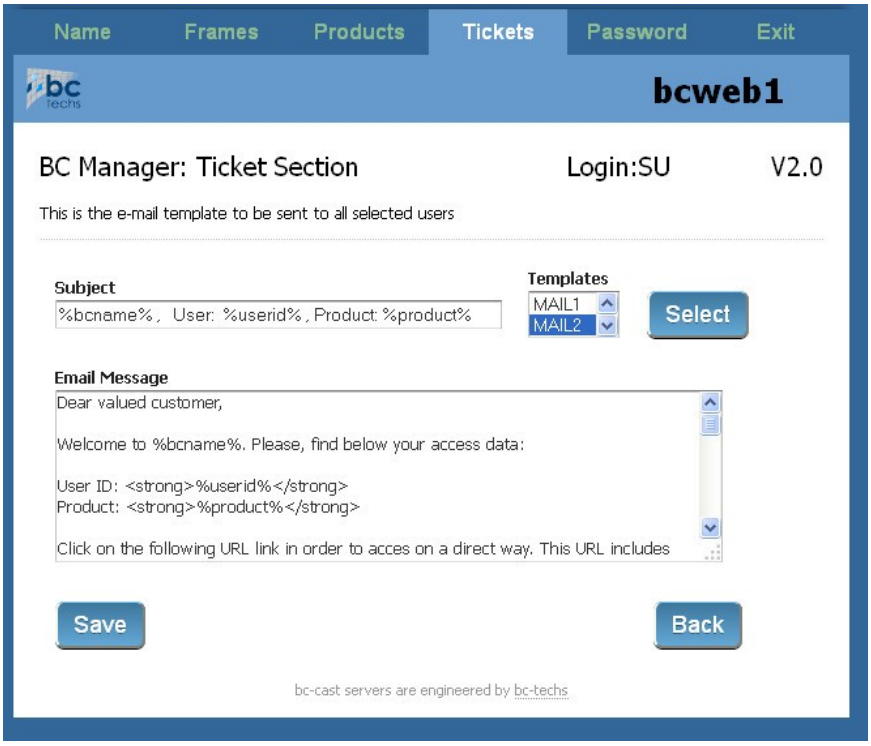

figure 11: Tickets section. E-mail template

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6. HTTPS Tickets Management Commands

A direct https API is available in order to allow a more convenient way to manage tickets in third party applications. These commands allow assign, de-assign and sent tickets via e-mail. Tickets and e-mail templates must be generated previously from the BC Manager tool.

The commands format is as follows:

https://<MSIP>/<bcid>/admin/admin.php?
pass=<password>&cmd=<com>&<par1=value2>&<par2=value2>&...<parn=valuen>

MSIP (Media Server IP) and **bcid** (Broadcaster ID) are the basic broadcaster identifiers in **bc-cast** service.

password: Password access to BC Manager tool.

com, parn: Main command and associated parameters.

setm: Ticket assignment to the specified user's group and product

email: email address to be assigned

grid: User´s group

prid: Product name

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

if unsuccessful: **ERROR:<N>**

setms: Ticket assignment to the specified user's group and product and then send it

email: email address to be assigned

grid: User´s group

prid: Product name

mailt: Email template (valid values: 0,1,2 and 3).

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

if unsuccessful: **ERROR:<N>**

send: It sends the email including ticket to the user defined in the following parameters:

usid: User ID (format GG_NNNNNNNN)

mailt: Email template (valid values: 0,1,2 and 3).

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

if unsuccessful: **ERROR:<N>**

read: This command provides user´s data from the following parameter:

usid: User ID (format GG_NNNNNNNN)

It outputs the associated email, ticket and product: **OK:<email>:<ticket>:<prid>**

stop: This command disables (but not de-assign) ticket activity from the following parameter:

usid: User ID (format GG_NNNNNNNN)

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

start: This command enable the ticket activity from the following parameter:

usid: User ID (format GG_NNNNNNNN)

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

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del: This command de-assign the ticket in order to be assigned to a new email:

usid: User ID (format GG_NNNNNNNN)

This command ouputs the associated User ID as follows: **OK:<UserID>:<prid>**

ERROR codes:

0: Denied access or Password does not match

1: No ickets ready to assign

2: UserID does not exist or UserID not assigned

3: E-mail error

Examples:

Ticket assignment to user group, product and email:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=setm&email=dumem@wanadooadsl.net&grid=00&prid=prod1

Ticket assignment to user group, product and email and send it:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=setms&email=dumem@wanadooadsl.net&grid=00&prid=prod1&mailt=0

Send ticket to user:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=send&usid=00_00000152&mailt=0

Read user data:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=read&usid=00_00000152

User/ticket disable (but keep assignment):

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=stop&usid=00_00000152

User/ticket enable:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=start&usid=00_00000152

Unassign (delete) user/ticket:

https://85.223.239.9/bcweb1/admin/api.php?pass=clave123&cmd=del&usid=00_00000152

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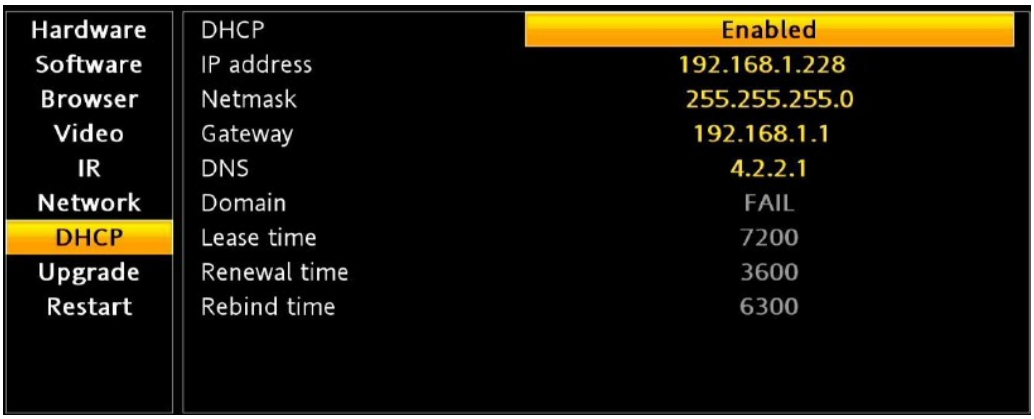
7. Appendix 1: Amino A140 IP STB Configuration

In order to bring up the management pages, the user must first enter the management password.

(Special Keyboard Note: If using a USB keyboard, it must be plugged into the Set Top Box (STB) prior to power up in order for the STB to recognize the keyboard.)

From the **Keyboard (IR or USB)**, press: **<Alt>m** - (two buttons pressed at the same time)
This brings up the **Password Request** box. The password is "**leaves"** by default. After entering the password, select the **<OK>** button.

The Amino STB has Dynamic Host Configuration Protocol (**DHCP**) turned on as the factory default. If your network has a DHCP server on it, the Amino STB will automatically acquire all necessary network values.



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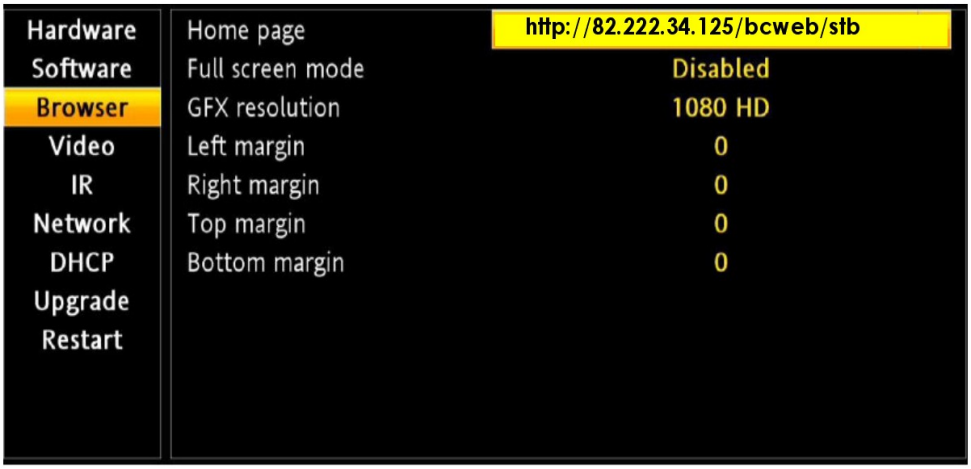
In order to configure the startup page select <**Browser**> in the left-hand column and press **<Enter>** and fill the <**Home Page>** field with the bc-cast server URL http://<MSIP>/<bcid>/stb
Entering the **Password "snake**" automatically saves the setting.

Example (MSIP=82.222.34.125, bcid=bccweb):



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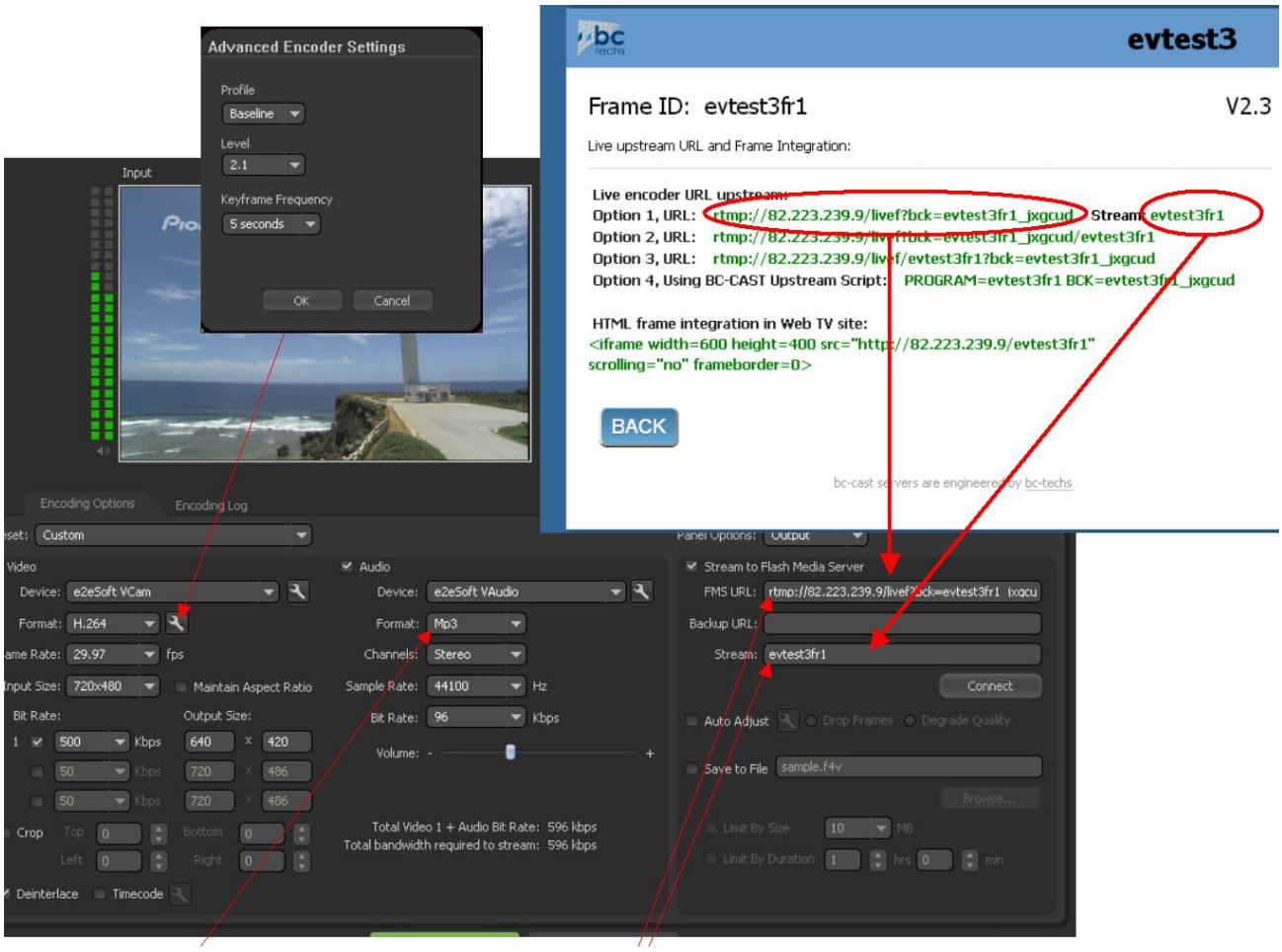
8. Appendix 2: Typical RTMP Codec Configuration

8.1. Adobe Flash Media Live Encoder



AAC recommended (if available)

IMPORTANT: Be sure there are no spaces before url and stream name

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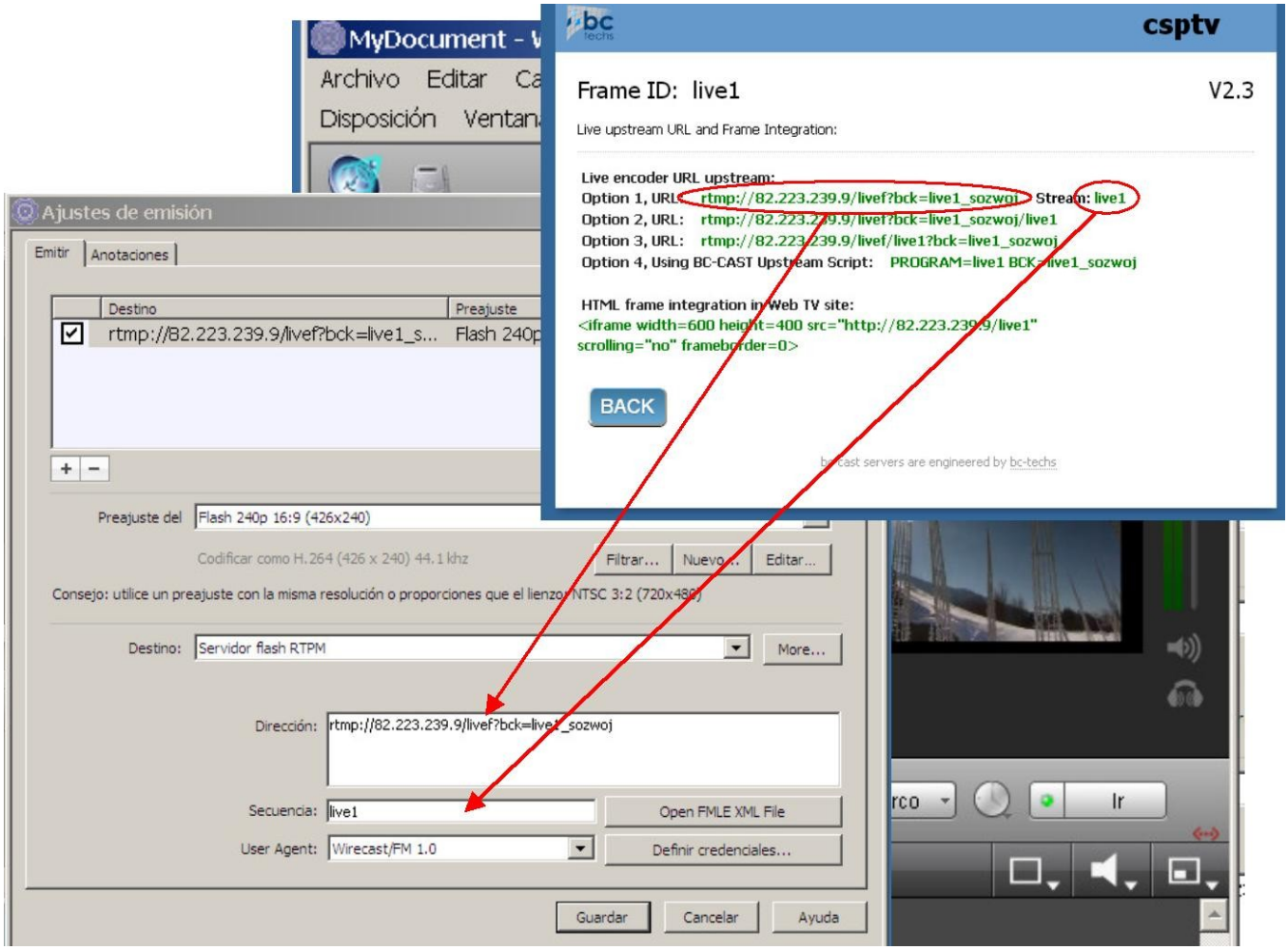
8.2. Telestream Wirecast



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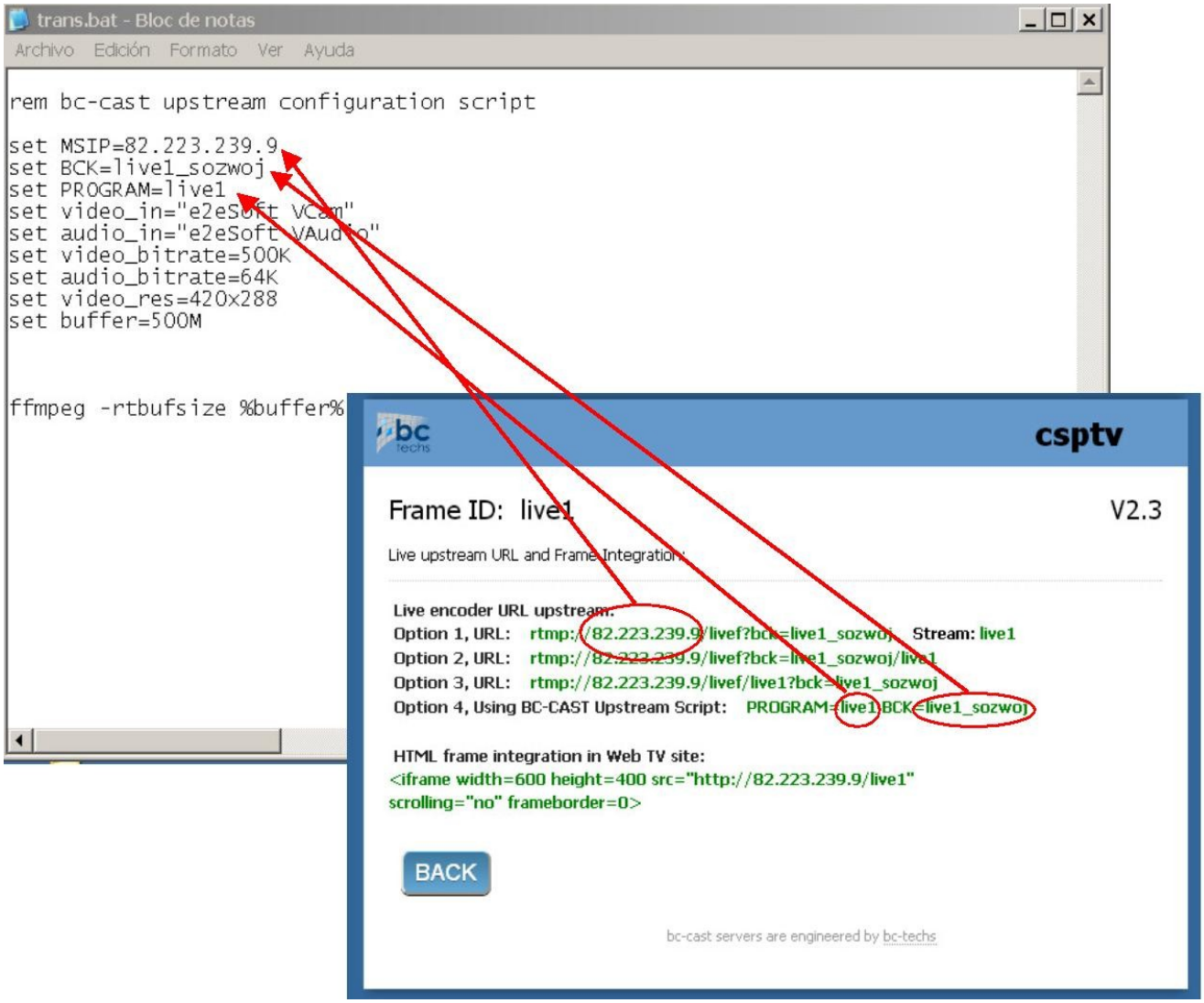
8.3. FFMPEG BCscript



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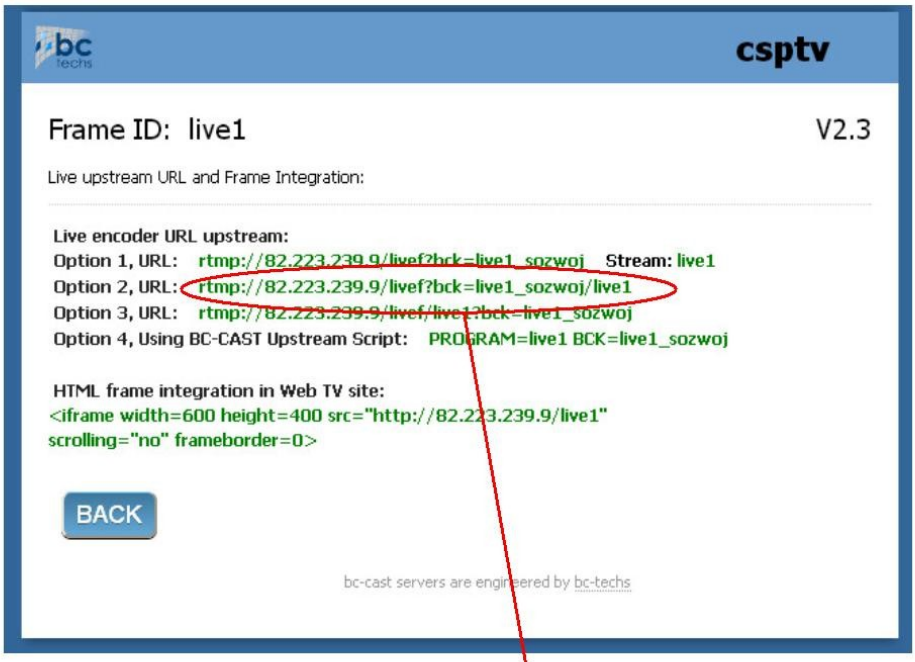
8.4. Generic FFMPEG



ffmpeg <Input & processing options> -f flv –y rtmp://82.223.239.9/livef?bck=live1_sozwoj/live1

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9. Appendix 3: Widget Locations

Widget locations in top bc-web page:

Chat
yes2tv
Qué es yes2tv
Widget 1
Pulsa sobre los canales para verlos:
Canal en Directo
Sorprende
Los mejores vídeos de yes2tv
Top Video 1
Top Video 2
Top Video 3
yes2tv es una plataforma promocionada por bc-techs y sus servicios cloud TV
http://bc-cast.com
1224
Recomendar
Widget 3
Tweets
Follow
bc-cast Cloud TV @bctechs 7 Dec
bc-cast es áun más fácil!!!: Si teneis una cámara o webcam acoplada a un PC Windows podeis comenzar de una manera... fb.me/2zn7klkFK
bc-cast Cloud TV @bctechs 5 Dec
Otra nueva característica del BC Manager V4.0 es la generación automática de scripts para Flash Media Live... fb.me/2vpCnQTvf
bc-cast Cloud TV @bctechs 5 Dec
Nueva versión 4.0 de la herramienta BC Manager que incorpora importantes novedades en la generación del portal... fb.me/2zlRkW8FZ
bc-cast Cloud TV @bctechs 1 Dec
La integración automática de twitter y otros widgets en los sitios web tv bc-cast es una novedad importante que... fb.me/3bDycxy9C
bc-cast Cloud TV @bctechs 1 Dec
bc-cast es compatible con herramientas de producción y estudio potentes y económicas como VidBlaster... fb.me/1Yoe2uFlj
Tweet to @bctechs
Widget 2
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Widget 4

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Widget locations in farme pages:

Exit
yes2tv
Sorprende
Sorprende es un canal en donde puedes participar con tus propios videos y ser valorado en el chat y en las redes sociales asociadas
Frame Widget
ihgp
yes2tv chat
Help
Sala Pública
Enviar
30 Nov 2013 - 18:28:04
hfuz : El vídeo de la chica guitarrista me deja alucinado!!!
30 Nov 2013 - 18:24:18
yes2tv : Continuamos con el periodo de pruebas pero ya podeis subir vuestros videos con wetransfer.com a yes2tv@bc-techs.com
30 Nov 2013 - 18:22:37
eqyv : ¿Cuando empezareis con las emisiones regulares?
30 Nov 2013 - 18:22:00
gbka : Hola. Los videos que ponéis son increibles
30 Nov 2013 - 18:19:08
yes2tv : Bienvenidos a yes2tv. En esta sala de chat podréis dar vuestra opinión sobre los videos que emitimos
Frame Common Widget

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